

Recombinant Human CNTF, His-tagged

Cat. No. CNTF-26842TH **Lot. No.** (See product label)

SPECIFICATION

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|---------------------------|---|
| Product Overview | Recombinant full length human CNTF, fused to His-tag at N-terminus; 220 amino acids, 25 kDa. |
| Species | Human |
| Source | E.coli |
| Description | The protein encoded by this gene is a polypeptide hormone whose actions appear to be restricted to the nervous system where it promotes neurotransmitter synthesis and neurite outgrowth in certain neuronal populations. The protein is a potent survival factor for neurons and oligodendrocytes and may be relevant in reducing tissue destruction during inflammatory attacks. A mutation in this gene, which results in aberrant splicing, leads to ciliary neurotrophic factor deficiency, but this phenotype is not causally related to neurologic disease. A read-through transcript variant composed of the upstream ZFP91 gene and CNTF sequence has been identified, but it is thought to be non-coding. Read-through transcription of ZFP91 and CNTF has also been observed in mouse. |
| Conjugation | HIS |
| Tissue specificity | Nervous system. |
| Form | Liquid |
| Purity | >95% by SDS-PAGE |

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|---------------------------------|---|
| Storage buffer | Preservative: None Constituents: 20mM Tris, 1mM DTT, pH 8.0 |
| Storage | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |
| Sequences of amino acids | MGSSHHHHHH SSGLVPRGSH MAFTEHSPLT PHRRDLCRSR IWLARKIRSD LTALTESYVK HQGLNKNINL DSADGMPVAS TDQWSELTEA ERLQENLQAY RTFHVLLARL LEDQQVHFTP TEGDFHQAIH TLLLQVAafa YQIEELMILL EYKIPRNEAD GMPINVGDGG LFEKKLWGLK VLQELSQWTV RSIHDLRFIS SHQTGIPARG SHYIANNKKM |
| Sequence Similarities | Belongs to the CNTF family. |
| Full Length | Full L. |

GENE INFORMATION

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|------------------------|---|
| Gene Name | CNTF ciliary neurotrophic factor [Homo sapiens] |
| Official Symbol | CNTF |
| Synonyms | CNTF; ciliary neurotrophic factor; HCNTF; |
| Gene ID | 1270 |
| mRNA Refseq | NM_000614 |
| Protein Refseq | NP_000605 |
| MIM | 118945 |
| Uniprot ID | P26441 |

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|----------------------------|---|
| Chromosome Location | 11q12 |
| Pathway | Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem; |
| Function | ciliary neurotrophic factor receptor binding; cytokine activity; growth factor activity; interleukin-6 receptor binding; |

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